



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,839	10/24/2003	William B. Greenwald	3467-72965	9232

23643 7590 09/19/2006

BARNES & THORNBURG LLP  
11 SOUTH MERIDIAN  
INDIANAPOLIS, IN 46204

EXAMINER

TRAN, HANH VAN

ART UNIT PAPER NUMBER

3637

DATE MAILED: 09/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/692,839	GREENWALD	
	Examiner	Art Unit	
	Hanh V. Tran	3637	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f):
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### DETAILED ACTION

1. Upon further consideration, this is a Non-Final Office action from the examiner in charge of this application in response to applicant's amendments dated 6/16/2006.

#### ***Claim Rejections - 35 USC § 103***

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. Claims 1-17, and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over USP 6,948,691 to Brock et al in view of USP 6,796,625 to Lauchner et al.

Brock et al discloses a telescoping slide assembly, such as shown in Fig 14, comprising all the elements recited in the above listed claims including interconnected load-carrying, intermediate, and stationary slides movable relative to one another to extend and retract the load-carrying and intermediate slides relative to the stationary slide, the load-carrying slide being formed to include a keyhole-shaped slot 254, such as shown in Figs 15-17, providing an enlarged-diameter entry and exit portion and a narrow-width post-retainer portion, the keyhole-shaped slot being adapted to receive a

Art Unit: 3637

mounting post 252 coupled to a piece of equipment to be carried on the load-carrying slide, and a post retainer 256 including a base coupled to the load-carrying slide and an arm formed to include a raised portion 263, said arm being coupled to the base to move relative to the load-carrying slide between a slot-opening position lying away from the load-carrying slide to allow movement of the mounting post into the enlarged-diameter entry and exit portion of the keyhole-shaped slot and a slot-closing position receiving the mounting post in the post retainer upon movement of the mounting post from the enlarged-diameter entry and exit portion into the narrow-width post-retainer portion of the keyhole-shaped slot, wherein the arm includes an actuator and a body arranged to interconnect the actuator and the base, the body is formed to include the raised portion 263, and the actuator includes means, facing toward the enlarged-diameter entry and exit portion of the keyhole-shaped slot, for intercepting a mounting post moving into the enlarged-diameter entry and exit portion and bending the body to cause the body to move away from the load-carrying slide so that the mounting post can pass from the enlarged-diameter entry and exit portion of the keyhole-shaped slot into the narrow-width post-retainer portion of the keyhole-shaped slot and the raised portion 263 formed in the body whereupon the actuator moves toward the load-carrying slide under a restoring force applied by the body to block removal of the mounting post from narrow-width post-retainer portion and the raised portion. The only different being that Brock does not disclose the arm of the post retainer formed to include a retention aperture (instead of a raised portion as disclosed).

Lauchner et al teaches a post retainer element 100/150 comprising a base 115 coupled to a drawer slide, an arm 113 formed to include a retention aperture 114, said arm 113 being coupled to the base 115 to move relative to the drawer slide between an opening position lying away from the drawer slide to allow movement of a mounting post 210 into the retention aperture and a locking position receiving the mounting post 210 in the post retainer; wherein the retention aperture 114 provides a secured engagement between the mounting post 210 and the post retainer. Therefore, it would have been obvious to modify the structure of Brock et al by providing the arm of the post retainer formed to include a retention aperture for the purpose of providing a secured engagement between the mounting post 210 and the post retainer, as taught by Lauchner et al, since both teach alternate conventional drawer slide locking structure, used for the same intended purpose of locking/holding one member relative to another, thereby providing structure as claimed.

5. Claims 18-19, 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over USP 6,948,691 to Brock et al in view of USP 6,796,625 to Lauchner et al and USP 6,588,866 to Cheng.

Brock et al discloses a telescoping slide assembly, such as shown in Fig 14, comprising all the elements recited in the above listed claims including interconnected load-carrying, intermediate, and stationary slides movable relative to one another to extend and retract the load-carrying and intermediate slides relative to the stationary slide, the load-carrying slide being formed to include a keyhole-shaped slot 254, such as shown in Figs 15-17, providing an enlarged-diameter entry and exit portion and a

Art Unit: 3637

narrow-width post-retainer portion, the keyhole-shaped slot being adapted to receive a mounting post 252 coupled to a piece of equipment to be carried on the load-carrying slide, and a post retainer 256 including a base coupled to the load-carrying slide and an arm formed to include a raised portion 263, said arm being coupled to the base to move relative to the load-carrying slide between a slot-opening position lying away from the load-carrying slide to allow movement of the mounting post into the enlarged-diameter entry and exit portion of the keyhole-shaped slot and a slot-closing position receiving the mounting post in the post retainer upon movement of the mounting post from the enlarged-diameter entry and exit portion into the narrow-width post-retainer portion of the keyhole-shaped slot, wherein the arm includes an actuator and a body arranged to interconnect the actuator and the base, the body is formed to include the raised portion, and the actuator includes means, facing toward the enlarged-diameter entry and exit portion of the keyhole-shaped slot, for intercepting a mounting post moving into the enlarged-diameter entry and exit portion and bending the body to cause the body to move away from the load-carrying slide so that the mounting post can pass from the enlarged-diameter entry and exit portion of the keyhole-shaped slot into the narrow-width post-retainer portion of the keyhole-shaped slot and the raised portion formed in the body whereupon the actuator moves toward the load-carrying slide under a restoring force applied by the body to block removal of the mounting post from narrow-width post-retainer portion and the post retainer. The differences being that Brock et al does not disclose (1) the arm of the post retainer formed to include a retention aperture (in instead of a raised portion as disclosed), and (2) the slot surrounded in the plane of

Art Unit: 3637

the wall by the generally flat wall of the load-carrying slide to permit the post only to enter the slot by moving generally perpendicular to the plane of the generally flat wall.

In regard to (1) the arm of the post retainer formed to include a retention aperture (in instead of a raised portion as disclosed), Lauchner et al teaches a post retainer element 100/150 comprising a base 115 coupled to a drawer slide, an arm 113 formed to include a retention aperture 114, said arm 113 being coupled to the base 115 to move relative to the drawer slide between an opening position lying away from the drawer slide to allow movement of a mounting post 210 into the retention aperture and a locking position receiving the mounting post 210 in the post retainer; wherein the retention aperture 114 provides a secured engagement between the mounting post 210 and the post retainer. Therefore, it would have been obvious to modify the structure of Brock et al by providing the arm of the post retainer formed to include a retention aperture for the purpose of providing a secured engagement between the mounting post 210 and the post retainer, as taught by Lauchner et al, since both teach alternate conventional drawer slide locking structure, used for the same intended purpose of locking/holding one member relative to another, thereby providing structure as claimed.

In regard to (2) the slot surrounded in the plane of the wall by the generally flat wall of the load-carrying slide to permit the post only to enter the slot by moving generally perpendicular to the plane of the generally flat wall, Cheng teaches an alternate idea of mounting a piece of equipment to a slide comprising a telescoping slide assembly having interconnected load-carrying, intermediate, and stationary slides movable relative to one another, a generally flat wall of the load-carrying slide being

Art Unit: 3637

formed to include forward and rearward slots 40, each adapted to receive a mounting post 44, each slot 40 is surrounded in the plane of the wall by the generally flat wall of the load-carrying slide to permit the post only to enter the slot by moving generally perpendicular to the plane of the generally flat wall; wherein the structure of slot 40 allows quick mounting of a piece of equipment to the load-carrying slide without the use of tools. Therefore, it would have been obvious, in view of Cheng, to modify the slot of Block et al by providing a slot surrounded in the plane of the wall by the generally flat wall of the load-carrying slide to permit the post only to enter the slot by moving generally perpendicular to the plane of the generally flat wall in order to allow quick mounting of a piece of equipment to the load-carrying slide without the use of tools, as taught by Cheng, since both teach alternate conventional slot structure, used for the same intended purpose of mounting a piece of equipment to a slide, thereby providing structure as claimed.

6. Claims 24-25, and 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brock et al, as modified, as applied to claims 18 and 26 above, and further in view of USP 3,133,768 to Klakovich.

Brock et al, as modified, discloses all the elements as discussed above except for a slide retainer coupled to the load-carrying slide to lie in spaced-apart relation to the post retainer and configured to engage a retraction stop included in the intermediate slide to block movement of the load-carrying slide relative to the intermediate slide from a fully extended position toward a retracted position within the intermediate slide, wherein the slide retainer includes a base coupled to the load-carrying slide, a movable



Art Unit: 3637

arm cantilevered to the base, and a button appended to a distal portion of the movable arm and arranged to extend into a button retention aperture formed in the intermediate slide and bordered by the retraction stop during movement of the load-carrying slide relative to the intermediate slide.

Klakovich teaches the idea of providing a slide assembly with a slide retainer 50 coupled to the load-carrying slide 27 to lie in spaced-apart relation to a post retainer and configured to engage a retraction stop 53 included in the intermediate slide 26 to block movement of the load-carrying slide relative to the intermediate slide from a fully extended position toward a retracted position within the intermediate slide, wherein the slide retainer 50, such as shown in Fig 8, includes a base coupled to the load-carrying slide, a movable arm cantilevered to the base, and a button appended to a distal portion of the movable arm and arranged to extend into a button retention aperture formed in the intermediate slide and bordered by the retraction stop during movement of the load-carrying slide relative to the intermediate slide; wherein the slide retainer and retraction stop combination prevents inadvertent movement of the slides relative to each other in the extended position. Therefore, it would have been obvious to modify the structure of Brock et al, as modified, by providing a slide retainer coupled to the load-carrying slide to lie in spaced-apart relation to the post retainer and configured to engage a retraction stop included in the intermediate slide to block movement of the load-carrying slide relative to the intermediate slide from a fully extended position toward a retracted position within the intermediate slide, wherein the slide retainer includes a base coupled to the load-carrying slide, a movable arm cantilevered to the base, and a button

Art Unit: 3637

appended to a distal portion of the movable arm and arranged to extend into a button retention aperture formed in the intermediate slide and bordered by the retraction stop during movement of the load-carrying slide relative to the intermediate slide in order to prevent inadvertent movement of the slides relative to each other in the extended position, as taught by Klakovich, since both teach alternate conventional slide assembly structure, used for the same intended purpose, thereby providing structure as claimed.

### ***Response to Arguments***

7. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh V. Tran whose telephone number is (571) 272-6868. The examiner can normally be reached on Monday-Thursday, and alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lanna Mai can be reached on (571) 272-6867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3637

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HVT

September 12, 2006



**Hanh V. Tran**  
**Art Unit 3637**